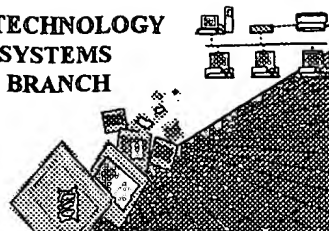


0420

BIOTECHNOLOGY
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RAW SEQUENCE LISTING
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OIPE

RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/921,406A

TIME: 15:59:31

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

3 <110> APPLICANT: Yakhini, Zohar
 4 Ben-Dor, Amir
 5 Sampas, Nick
 6 Dougherty, Edward
 7 Trent, Jeff
 8 Meltzer, Paul
 9 Chen, Yidong
 10 Weeraratna, Ashani
 11 Jiang, Yuan
 12 Bittner, Michael
 14 <120> TITLE OF INVENTION: Classifying Cancers
 16 <130> FILE REFERENCE: 10010313-1
 18 <140> CURRENT APPLICATION NUMBER: 09/921,406A
 19 <141> CURRENT FILING DATE: 2001-08-02
 21 <160> NUMBER OF SEQ ID NOS: 41
 23 <170> SOFTWARE: PatentIn Ver. 2.1
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 26 <211> LENGTH: 489
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo sapiens
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 33 <223> OTHER INFORMATION: n = gat or c
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 43 <223> OTHER INFORMATION: n = gat or c
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 47 <222> LOCATION: (268)
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 53 <223> OTHER INFORMATION: n = gat or c
 55 <220> FEATURE:
 56 <221> NAME/KEY: misc_feature
 57 <222> LOCATION: (388)

pp 1-2, 5-6
 Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/921,406A

TIME: 15:59:31

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

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94 <212> TYPE: DNA
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112 acggccttca catagccgt gagcgcagca ggggtggtga acgcatgag ccgggcgtgc 900
113 cgcgagggcg agctgtccac ctgcggctgc agccgcgcc cgcgcccaa ggacctgccg 960
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RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/921,406A

TIME: 15:59:31

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

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116 cgcatoctca tgaacctgca caacaacgag gccggccgca ggacggtgta caacctggct 1140
117 gatgtggcct gcaagtgcc tgggggtgtcc ggctcatgta gcctgaagac atgctggctg 1200
118 cagctggcag acttccgcaa ggtgggtgat gccctgaagg agaagtacga cagcgcggcg 1260
119 gccatgcggc tcaacagccg gggcaagtgt gtacaggta acagccgctt caactcgccc 1320
120 accacacaag acctggtcta catcgacccc agccctgact actgcgtgcg caatgagagc 1380
121 accggctcgc tgggcacgca gggccgcctg tgcaacaaga cgtcggaggg catggatggc 1440
122 tgcgagctca tgtgctgcgg ccgtgggtac gaccagttca agaccgtgca gacggagcgc 1500
123 tgccactgca agttccactg gtgctgctac gtcaagtgca agaagtgcac ggagatcgtg 1560
124 gaccagtttg tgtgcaagta gtgggtgcc cccagcactc agccccgctc ccaggacccg 1620
125 cttattttata gaaagtacag tgattctggt ttttggtttt tagaaatatt ttttattttt 1680
126 ccccaagaat tgcaaccgga accatttttt ttccgtttac catctaagaa ctctgtggtt 1740
127 tattattaat attataatta ttatttggca ataattgggg tgggaaccac gaaaaatatt 1800
128 tattttgtgg atctttgaaa aggtaataca agacttcttt tggatagtat agaattgaagg 1860
129 gggaaataac acatacccta acttagctgt gtgggacatg gtacacatcc agaaggtaaa 1920
130 gaaatacatt ttctttttct caaatatgcc atcatatggg atgggtagggt tccagttgaa 1980
131 agagggtggt agaaatctat tcacaattca gcttctatga ccaaaatgag ttgtaaattc 2040
132 tctggtgcaa gataaaagggt cttgggaaaa caaaacaaa caaaacaaac ctcccttccc 2100
133 cagcagggtc gctagcttgc tttctgcatt ttcaaatga taatttacia tggaaggaca 2160
134 agaattgtcat attctcaagg aaaaaaggtt tatcatatgt ctcatctccc tcaaatatcc 2220
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147 agttgcattt ataagggggg aaatgtggtt taatggtgcc tgatatctca aagtcttttg 3000
148 tacataacat atatatatat atacatatat ataaatataa atataaatat atctcattgc 3060
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154 cgttatagac atggacgtta agagatatcc aaaactcaga agcatcagca atgtttctct 3420
155 tttcttagtt cattctgcag aatggaaacc catgcctatt agaaatgaca gtacttatta 3480
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157 ttttaataag gacacctctt tccaaacagg ccatcaaata tgttcttatc tcagacttac 3600
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162 gtttttatta taaaaaacc atgaagtact ttttttattt gctaaatcag attgttcctt 3900
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RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/921,406A

TIME: 15:59:31

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

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164 tattttaatgt aaaatattct acatgtcatt cagatattat gtatatcttc tagcctttat 4020
165 tctgtacttt taatgtacat atttctgtct tgcgtgattt gtatatttca ctggtttaaa 4080
166 aaacaaacat cgaaaggctt attccaaatg gaag 4114
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170 <211> LENGTH: 365
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 3
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176 1 5 10 15
178 Ile Phe Phe Ser Phe Ala Gln Val Val Ile Glu Ala Asn Ser Trp Trp
179 20 25 30
181 Ser Leu Gly Met Asn Asn Pro Val Gln Met Ser Glu Val Tyr Ile Ile
182 35 40 45
184 Gly Ala Gln Pro Leu Cys Ser Gln Leu Ala Gly Leu Ser Gln Gly Gln
185 50 55 60
187 Lys Lys Leu Cys His Leu Tyr Gln Asp His Met Gln Tyr Ile Gly Glu
188 65 70 75 80
190 Gly Ala Lys Thr Gly Ile Lys Glu Cys Gln Tyr Gln Phe Arg His Arg
191 85 90 95
193 Arg Trp Asn Cys Ser Thr Val Asp Asn Thr Ser Val Phe Gly Arg Val
194 100 105 110
196 Met Gln Ile Gly Ser Arg Glu Thr Ala Phe Thr Tyr Ala Val Ser Ala
197 115 120 125
199 Ala Gly Val Val Asn Ala Met Ser Arg Ala Cys Arg Glu Gly Glu Leu
200 130 135 140
202 Ser Thr Cys Gly Cys Ser Arg Ala Ala Arg Pro Lys Asp Leu Pro Arg
203 145 150 155 160
205 Asp Trp Leu Trp Gly Gly Cys Gly Asp Asn Ile Asp Tyr Gly Tyr Arg
206 165 170 175
208 Phe Ala Lys Glu Phe Val Asp Ala Arg Glu Arg Glu Arg Ile His Ala
209 180 185 190
211 Lys Gly Ser Tyr Glu Ser Ala Arg Ile Leu Met Asn Leu His Asn Asn
212 195 200 205
214 Glu Ala Gly Arg Arg Thr Val Tyr Asn Leu Ala Asp Val Ala Cys Lys
215 210 215 220
217 Cys His Gly Val Ser Gly Ser Cys Ser Leu Lys Thr Cys Trp Leu Gln
218 225 230 235 240
220 Leu Ala Asp Phe Arg Lys Val Gly Asp Ala Leu Lys Glu Lys Tyr Asp
221 245 250 255
223 Ser Ala Ala Ala Met Arg Leu Asn Ser Arg Gly Lys Leu Val Gln Val
224 260 265 270
226 Asn Ser Arg Phe Asn Ser Pro Thr Thr Gln Asp Leu Val Tyr Ile Asp
227 275 280 285
229 Pro Ser Pro Asp Tyr Cys Val Arg Asn Glu Ser Thr Gly Ser Leu Gly
230 290 295 300
232 Thr Gln Gly Arg Leu Cys Asn Lys Thr Ser Glu Gly Met Asp Gly Cys
233 305 310 315 320
235 Glu Leu Met Cys Cys Gly Arg Gly Tyr Asp Gln Phe Lys Thr Val Gln

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RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/921,406A

TIME: 15:59:31

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

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236          325          330          335
238 Thr Glu Arg Cys His Cys Lys Phe His Trp Cys Cys Tyr Val Lys Cys
239          340          345          350
241 Lys Lys Cys Thr Glu Ile Val Asp Gln Phe Val Cys Lys
242          355          360          365

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250 <220> FEATURE:

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251 <221> NAME/KEY: misc feature

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252 <222> LOCATION: (333)

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253 <223> OTHER INFORMATION: n = gat or c

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255 <400> SEQUENCE: 4

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258 atggcttgca tttttcctac accattccaa aggagaacat tagatgtctg tattaaattc 180
W--> 259 aagcaaaagt gtgagagaaa taatttcagc atgtctcagg tgtctcgtcg ggtcttaagg 240
260 tgaataaggt ggtggtgact gttctgcaga gagtttctca taagcagggt gagcattggg 300
261 aaccacaggt tcacagtttt tctcttgaag agacactttg ctgtcccgat gatcaaacc 360
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265 <210> SEQ ID NO: 5

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266 <211> LENGTH: 1524

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267 <212> TYPE: DNA

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268 <213> ORGANISM: Homo sapiens

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270 <400> SEQUENCE: 5

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273 cggctgaaga ggccgctggg atcggcaccc tgacagtgat cctgggagtc ttactgctca 180
274 tgggctgttg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
275 atgttggcac tcaatgtgcc ttaacaagaa gatgccaca agaagggttt gatcatcggg 300
276 acagcaaaagt gtctcttcaa gagaaaaact gtgaacctgt ggttcccaat gctccacctg 360
277 cttatgagaa actctctgca gaacagtcac caccacctta ttcaccttaa gagccagcga 420
278 gacacctgag acatgctgaa attatttctc tcacactttt gcttgaattt aatacagaca 480
279 tctaattgtc tcctttggaa tgggtgtaga aaaatgcaag ccactctctaa taataagtca 540
280 gtgttaaaat tttagtaggt ccgctagcag tactaatcat gtgaggaaat gatgagaaat 600
281 attaaattgg gaaaactcca tcaataaatg ttgcaatgca tgatactatc tgtgccagag 660
282 gtaatgttag taaatccatg gtgttatttt ctgagagaca gaattcaagt gggatttctg 720
283 gggccatcca atttctcttt acttgaaatt tggctaataa caaactagtc aggttttctga 780
284 accttgaccg acatgaactg tacacagaat tgttccagta ctatggagtg ctcacaaagg 840
285 atacttttac aggttaagac aaagggttga ctggcctatt tatctgatca agaacatgtc 900
286 agcaatgtct ctttgtgtct taaaattcta ttatactaca ataatatatt gtaaagatcc 960
287 tatagctctt tttttttgag atggagtttc gcttttgttg cccaggctgg agtgcaatgg 1020
288 cgcgatcttg gctcaccata acctccgcct cccaggttca agcaattctc ctgccttagc 1080
289 ctctgagta gctgggatta caggcgtgcg ccactatgcc tgactaattt tgtagtttta 1140
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291 ctgcccgcct cagcctccca aagtgtctga attacaggcg tgagccacca cgcctggctg 1260
292 gatcctatat cttaggtaag acatataacg cagtctaatt acatttcaact tcaaggctca 1320
293 atgctattct aactaatgac aagtattttc tactaaacca gaaattggta gaaggattta 1380

```

"a" is at location 333. Do you mean (233)?

see below

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/921,406A

DATE: 08/22/2002
TIME: 15:59:32

Input Set : A:\Agilen11.app
Output Set: N:\CRF3\08222002\I921406A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 57,167,245,268,306,388,443,462,472,477,488
Seq#:4; N Pos. 233
Seq#:6; N Pos. 47,92,95,386,408,427
Seq#:8; N Pos. 178,180,360,396,417,433,441,456,465,480,488,493,499,508,528
Seq#:10; N Pos. 11,239,328,359
Seq#:12; N Pos. 65,117,131,192,207,254,266,303
Seq#:14; N Pos. 214,268
Seq#:16; N Pos. 26,90,324,337,348,368
Seq#:18; N Pos. 49,186,189,195,199
Seq#:19; N Pos. 2019,4013,4016
Seq#:20; N Pos. 475,478
Seq#:22; N Pos. 4,6,7,8,162,268,345,388
Seq#:24; N Pos. 498,504,507
Seq#:26; N Pos. 183,211,279,307,310,345,350,361,380,388
Seq#:28; N Pos. 14,15,122,216
Seq#:30; N Pos. 320,321,433,469,485
Seq#:32; N Pos. 136,353,383,411
Seq#:36; N Pos. 407,430
Seq#:38; N Pos. 311,389,454,470
Seq#:40; N Pos. 146,148,347,411,413,421

VERIFICATION SUMMARY

DATE: 08/22/2002

PATENT APPLICATION: US/09/921,406A

TIME: 15:59:32

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:360
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:420
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:480
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:360
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:120
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:300
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:360
L:418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:420
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:180
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:300
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:60
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:180
L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:240
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:300
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:180
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:240
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:300
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360
L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:180
L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:1980
L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:3960
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:420
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:120
L:1174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:240
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:300
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:360
L:1255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:480
L:1333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:180
L:1334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:360
L:1452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/921,406A

DATE: 08/22/2002

TIME: 15:59:32

Input Set : A:\Agilen11.app

Output Set: N:\CRF3\08222002\I921406A.raw

L:1455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180

L:1568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:300